5

## ABSTRACT

A radio-frequency (RF) repeater, including a first repeating section [00110] which is adapted to receive and amplify forward-signals from a first transceiver so as to generate amplified-forward-signals and to radiate the amplified-forward-signals to a second transceiver. The first section also receives and amplifies reverse-mainsignals from the second transceiver so as to generate amplified-reverse-main-signals and transmits the amplified-reverse-main-signals to the first transceiver. The repeater 10 includes a second repeating section which is adapted to receive and amplify reversediversity-signals from the second transceiver so as to generate amplified-reversediversity-signals and transmits the amplified-reverse-diversity-signals to the first transceiver.